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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,441	11/07/2001	Heinz Fabian	52201-0607	4283
75	90 08/08/2003		,	
Andrew L. Tiajoloff, Esq.			EXAMINER	
330 Madison Av New York, NY	•		MEEKS, TIMOTHY HOWARD	
			ART UNIT	PAPER NUMBER
			1762	
			DATE MAILED: 08/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	4		- 1/ /				
	Application No.	Applicant(s)					
	10/045,441	FABIAN, HEINZ					
Office Action Summary	Examin r	Art Unit					
	Timothy H. Meeks	1762					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	h the correspondence address	••				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a repy within the statutory minimum of thirty will apply and will expire SIX (6) MONT, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communic NDONED (35 U.S.C. § 133).	cation.				
Status							
1) Responsive to communication(s) filed on							
, <u> </u>	is action is non-final.						
3) Since this application is in condition for allows closed in accordance with the practice under	•	· •	its is				
Disposition of Claims							
4)⊠ Claim(s) <u>18-39</u> is/are pending in the application	n.						
4a) Of the above claim(s) 31-39 is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>18-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 18-39 are subject to restriction and/or	election requirement.						
Application Papers	_						
9) The specification is objected to by the Examine		dt butha Evaninas					
10) The drawing(s) filed on <u>01 August 2001</u> is/are:		•					
Applicant may not request that any objection to the 11) The proposed drawing correction filed on	- · · · · · · · · · · · · · · · · · · ·						
If approved, corrected drawings are required in re		suppliered by the Examinor.					
12) The oath or declaration is objected to by the Ex	•						
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	, process, and a control of	(.) (.) (.)					
1.⊠ Certified copies of the priority document	s have been received.						
2. Certified copies of the priority document		plication No					
3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list	rity documents have been r reau (PCT Rule 17.2(a)).	eceived in this National Stage)				
14) Acknowledgment is made of a claim for domesti	•		cation)				
a) The translation of the foreign language pro	•		,				
15) Acknowledgment is made of a claim for domest							
Attachment(s)		·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 18-30 drawn to method, classified in class 65, subclass 421
- II. Claims 31-39, drawn to an apparatus classified in class 118, subclass 715.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus could be used to deposit materials other than silica.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Andrew Tiajoloff on 03 July 2003 a provisional election was made with traverse to prosecute the invention of Group I, claims 18-30.

Affirmation of this election must be made by applicant in replying to this Office action. Claims 31-39 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 18-30 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of copending Application No. 10/045,339. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of '339 require varying the width of the flame with a geometrical parameter of the deposition surface which would be inclusive of a relative location of the deposition burner relative to the blank.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 18-26 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 98/03441

WO 98/03441 discloses a process for producing a SiO₂ blank comprising forming silica particles in a burner flame associated with one or more deposition burners, depositing the silica particles under the effect of an electrical field on a deposition surface of a carrier rotating about a longitudinal axis thereof, the deposition burner being supported for relative longitudinal reciprocation relative with respect to the developing blank between turn-around points thereon (English translation at pages 4-9). WO 98/03441 further discloses at page 11 of the English translation that the voltage forming the electrical field is increased over time intervals dependent upon the diameter of the growing blank so as to prevent a slowing of the deposition rate caused by charging of the blank over time. The increased voltage applied to the electrical field must inherently change the shape of the flame as the particles of the flame will be accelerated with the increased voltage (energy) imparted thereto. This change in shape also is performed relative to the location with respect to the blank as this location will change as the diameter of the blank grows. With respect to claims 19-20, the change of shape of the flame will inherently involve a change in both widths of the flame as the voltage is increased. Also, with respect to claim 20, the voltage will need to be changed at the turn-around points to maintain homogeneity of the field across the longitudinal axis of the blank as required in WO 98/03441, as such the width would be varied at these points as well.

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Claims 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida et al. (6,003,342)

Ishida discloses a process for producing a silica blank comprising forming silica particles in a burner flame associated with a deposition burner, depositing the silica particles under the effect of an electrical field on a deposition surface of a carrier rotating about a longitudinal axis thereof, the deposition burner being supported for relative longitudinal reciprocation relative with respect to the developing blank between turn-around points thereon. The voltage applied to the electrical field is increased at the turn-around points so as to increase the deposition rate in these areas (col. 20, line 28 to col. 21, line 38, figures 27 and 28). The increased voltage applied to the electrical field must inherently change the shape of the flame as the particles of the flame will be accelerated with the increased voltage (energy) imparted thereto. With respect to claims 19-20, the change of shape of the flame will inherently involve a change in both widths of the flame as the voltage is increased.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/03441.

WO 98/03441 does not explicitly disclose that the electrical field is adjusted to avoid a gas discharge. However, as WO 98/03441 discloses that the electrical field is to be applied after the particles are formed a gas discharge would destroy (by decomposition) the formed particles,

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discharge.

hence reducing or destroying the efficiency of the process, it would have been obvious to adjust the electrical field to prevent gas discharge to avoid decomposition of the formed particles in such discharge.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida et al.

Ishida does not explicitly disclose that the electrical field is adjusted to avoid a gas discharge. However, as Ishida discloses that the electrical field is to be applied after the particles are formed a gas discharge would destroy (by decomposition) the formed particles, hence reducing or destroying the efficiency of the process, it would have been obvious to adjust the electrical field to prevent gas discharge to avoid decomposition of the formed particles in such

Allowable Subject Matter

Claims 27-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. JP 58-217448 and JP 56-054242 cited for their disclosure of applying an electrical field to a burner flame for soot deposition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy H. Meeks whose telephone number is (703) 308-3816. The examiner can normally be reached on Mon., Tues., Thurs.(6-6:30), Fri.(6:30-10:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P. Beck can be reached on (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Timothy H. Meeks Primary Examiner Art Unit 1762

nf August 4, 2003